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DIVISION OF CHEMISTRY AND CHEMICAL TECHNOLOGY  
NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL**

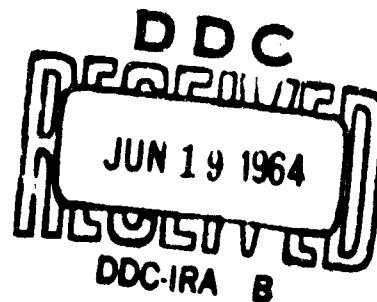
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**INTRODUCTORY BIBLIOGRAPHY ON  
COLLECTION, IDENTIFICATION, AND  
STORAGE OF ANAEROBIC BACTERIA**

Compiled by

Richard W. H. Lee

March 26, 1962



**2101 Constitution Avenue  
Washington 25, D. C.**

The Prevention of Deterioration Center operates with the support of the Army, Navy, and Air Force under contract between the National Academy of Sciences-National Research Council and the Office of Naval Research.

Consulting and advisory services are offered by the Center to U.S. military agencies and their contractors, and to other Federal Government organizations. A library of about 50,000 technical reports, journal articles, and patents on materiel deterioration and its prevention is maintained, and provides the basis for literature searches. Preparation of selected bibliographies on specific subjects in this field represents but one area of service the Center renders. Information regarding library loans, and other PDC services and publications will be furnished upon request.

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Introductory Bibliography

on

Collection, Identification, and  
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- A-1084 Margolin, Elias L. The biological deterioration and degradation of hydrocarbons. U.S. Wright air development center. Technical report no. 6290. June 1951.
- G-1454 Gilbert, P.T. Corrosion of copper, lead, and lead-alloy specimens after burial in a number of soils for periods up to 10 years. Inst. Metals, J., 73, 139-174. Nov. 1946.
- G-1645 Starkey, Robert L., and Kent M. Wight. Anaerobic corrosion of iron in soil, with particular consideration of the soil redox potential as an indicator of corrosiveness. Am. Gas Assoc., Proc., 25, 307-412. 1945.
- G-2298 ZoBell, Claude E. ... Microbial transformation of molecular hydrogen in marine sediments, with particular reference to petroleum ... Am. Assoc. Petroleum Geol., Bull., 31, 1709-1751. Oct. 1947.
- G-2389 ZoBell, Claude E., and Barbara Fay Brown. Studies on the chemical preservation of water samples ... J. Marine Research Sears Foundation, 5(3), 178-184. 1944.
- G-3488 Hunter, J.B., H.F. McConomy, and R.F. Weston. Environmental pH as a factor in control of anaerobic bacterial corrosion. Corrosion, 4, 567-581. Dec. 1948.
- G-4540 Proom, H., and Lois M. Hemmons. The drying and preservation of bacterial cultures. J. Gen. Microbiol., 3, 7-18. 1949.
- G-8613 Kulman, Frank E. Microbiological corrosion of buried steel pipe. Corrosion, 9, 11-18. Jan. 1953.
- G-8840 Postgate, J.R. On the nutrition of Desulphovibrio desulphuricans. J. Gen. Microbiol., 5, 711-724. 1951.
- G-8841 Postgate, J.R. The reduction of sulphur compounds by Desulphovibrio desulphuricans. J. Gen. Microbiol., 5, 725-738. 1951.
- G-8889 Adams, Mary E., and T.W. Farrer. The influence of ferrous iron on bacterial corrosion. J. Applied Chem. (London), 3, 117-120. March 1953.
- G-9737 Gyllenberg, Helge H.G. Studies of associative populations in the breakdown of cellulose. Acta Agr. Scand., 2, 183-196. 1952.
- G-9752 Wood, E.J. Ferguson. Marine bacteria in relation to economic processes. Australian J. Sci., 16, 87-91. Dec. 1953.
- P-2860 McMahon, Howard O. Preservation and storage of biological materials. U.S. Pat. 2,662,520; Dec. 15, 1953.
- R-409 Beerstecher, Ernest, jr. Petroleum microbiology. An introduction to microbiological petroleum engineering. Houston, Texas, Elsevier press, inc., 1954. 375 p.

- X-839 ZoBell, Claude E., and Catharine B. ZoBell. Preliminary studies on the distribution and characteristics of marine bacteria. Scripps Inst. Oceanography, Bull., Tech. Series, 3(12), 279-296. Sept. 1934.
- PDL-30172 U.S. Agricultural research service. Northern utilization research branch, Peoria, Ill. Differentiation of microorganisms by infrared spectra, by F.R. Senti, E.H. Melvin, W.C. Haynes, C.A. Glass, and Joan M. Locke. U.S. Chemical corps. Contracts CD3-119 and CD4-400, final report. July 1956.
- PDL-30376 Kentucky. University. Kentucky research foundation. Development and evaluation of rapid biochemical techniques of value in the rapid identification of microorganisms, by R.H. Weaver. U.S. Chemical corps. Contract DA-18-064-404-CML-31. Dec. 1955.
- PDL-30448 ZoBell, Claude E., and Richard Y. Morita. Barophilic bacteria in some deep sea sediments. J. Bacteriol., 73, 563-568. April 1957.
- PDL-30479 Campbell, L. Leon, jr., Hilmer A. Frank, and Elizabeth R. Hall. Studies on thermophilic sulfate reducing bacteria. 1. Identification of Sporovibrio desulfuricans as Clostridium nigrificans. J. Bacteriol., 73, 516-521. April 1957.
- PDL-30853 Tresner, H.D., and E.J. Backus. A method for preserving reference specimens of actinomycetes. J. Bacteriol., 73, 687-688. May 1957.
- PDL-30982 U.S. Agricultural research service. Southern utilization research branch, New Orleans, La. Differentiation of microorganisms by infrared spectra, by Robert T. O'Connor and T.H. Hopper. U.S. Chemical corps. Contract CD4-400, 11th quarterly report. April 1955.
- PDL-31065 Morita, Richard Y., and Claude E. ZoBell. Occurrence of bacteria in pelagic sediments collected during the Mid-Pacific expedition. Deep-Sea Research, 3(1), 66-73. Oct. 1955.
- PDL-32098 Czerwínska, E., I. Sadurska, and D. Kozłowska. Actinomycetes damaging old manuscripts and documents (in Polish with English summary). Acta Microbiol. Polon., 2, 160-164. 1953.
- PDL-32382 Tsuneishi, N., and A. Goetz. A method for the rapid cultivation of Desulfovibrio aestuarii on filter membranes. Applied Microbiol., 6, 42-44. Jan. 1958.
- PDL-32803 Cook, T.M., and M.J. Pelczar, jr. Detection of hydrogen sulfide production by bacteria using paper disc methods. Applied Microbiol., 6, 193-197. May 1958.
- PDL-32893 Bahr, H., and W. Schwartz. Investigations on the ecology of colorless, thready sulfur microbes (in German). Biol. Zentr., 75, 451-464. 1956.

- PDL-33085 MacLeod, Robert A., H. Horenkamp, and E. Onofrey. Nutrition and metabolism of marine bacteria. 7. Growth response of a marine flavobacterium to surface active agents and nucleotides. *J. Bacteriol.*, 75, 460-466. April 1958.
- PDL-33178 Wynne, E. Staten, convener. Symposium on bacterial spore germination. *Bacteriol. Revs.*, 21, 259-262. Dec. 1957.
- PDL-33446 Úlehla, Jiri, Milos Spurný, and Milan Dostálek. Biological sulphate reduction as studied by means of the spot test reaction for hydrogen sulphide (in Czech with English summary). *Ceskoslov. mikrobiol.*, 1, 267-271. 1956.
- PDL-33465 Abd-El-Malek, Y., and S.G. Rizk. Counting of sulphate-reducing bacteria in mixed bacterial populations. *Nature*, 182, 538. Aug. 1958.
- PDL-33518 Spurný, Milos, Milan Dostálek, and Jiri Úlehla. A method of estimating population of sulfate reducing bacteria (in Czech with English summary). *Ceskoslov. mikrobiol.*, 1, 272-281. 1956.
- PDL-33847 James, Norman. Soil extract in soil microbiology. *Can. J. Microbiol.*, 4, 363-370. Aug. 1958.
- PDL-33965 Spurný, Milos, and Milan Dostálek. The use of submerged slide technique for evaluating the sulphate reducing bacteria's contaminants occurring in hydrogen sulphide waters (in Czech with English summary). *Preslia*, 29, 125-131. 1957.
- PDL-33984 Grein, A., and S.P. Meyers. Growth characteristics and antibiotic production of Actinomycetes isolated from littoral sediments and materials suspended in sea water. *J. Bacteriol.*, 76, 457-463. Nov. 1958.
- PDL-34025 American type culture collection, Washington, D.C. Catalog of cultures. Sixth edition. 1958. 180 p.
- PDL-34161 Macura, J., and I. Malek. Continuous-flow method for the study of microbiological processes in soil samples. *Nature*, 182, 1796-1797. Dec. 1958.
- PDL-34355 Postgate, John. A diagnostic reaction of Desulphovibrio desulphuricans. *Nature*, 183, 481-482. Feb. 1959.
- PDL-34456 Ishimoto, Makoto, Tatsuhiko Yagi, and Masaru Shiraki. Biochemical studies on sulfate-reducing bacteria. 8. The function of cytochrome of sulfate-reducing bacteria in decomposition of formate and reduction of sulfur and hydroxylamine. *J. Biochem. (Japan)*, 44, 707-714. Nov. 1957.
- PDL-35915 Gilmore, A.E. A soil sampling tube for soil microbiology. *Soil Sci.*, 87, 95-99. Feb. 1959.
- PDL-36231 Barmenkov, A.S. (On prolonged storage of microcultures). *Mikrobiologiya*, 28, 444-446. May/June 1959.

- PDL-36618 Abd-El-Malek, Y., and S.G. Rizk. Culture of Desulphovibrio desulphuricans. Nature, 185, 635-636. Feb. 1960.
- PDL-37239 Shaposhnikov, V.V., E.N. Kondratieva, and V.D. Fedorov. A new species of green sulphur bacteria. Nature, 187, 167-168. July 1960.
- PDL-37270 Wolfson, L.L. Microbiology in secondary recovery systems. Corrosion, 16, 132-134. June 1960.
- PDL-38504 Holden, Henry Francis. Apparatus for vacuum distillation and for "freeze-drying". Australian J. Exptl. Biol. Med. Sci., 36, 285-288. June 1958.
- PDL-38592 Tentative method for identification of types of microorganisms and microscopic matter in industrial water and industrial waste water. ASTM Standards, Part 10:1098-1103. 1958.
- PDL-38961 Postgate, John. Sulphate reduction by bacteria. In: Annual Review of Microbiology, Vol. 13:505-520. 1959. Edited by Charles E. Clifton.
- PDL-39387 Freeman, Robert R. Method for the cultivation of microorganisms. U.S. Pat. 2,970,088; Jan. 31, 1961.
- PDL-39857 ZoBell, Claude E. Marine microbiology. Final report. Scripps institution of oceanography, LaJolla, Calif. Reference 60-14. Jan. 1960.
- PDL-40808 Starkey, Robert L. Sulfate-reducing bacteria - physiology and practical significance. 1960/61. Lectures on theoretical and applied aspects of modern microbiology are sponsored jointly by the Amer. Cyanamid Co., Chas. Pfizer and Co., and Merck and Co.
- PDL-41642 Matthews, A.D., and P.N. Karnauchow. A simple technique for the cultivation of anaerobes. Can. Med. Assoc. J., 84, 793-794. April 1961.
- PDL-42107 Skalon, I.S. A new method for separating aerobic and anaerobic species of microorganisms. Microbiology, 29, 657-658. May/June 1961.
- PDL-43217 ZoBell, Claude E. Methods of enumerating marine bacteria. In Marine microbiology. Waltham, Mass., Chronica Botanica, 1946. p. 41-58.
- PDL-43218 ZoBell, Claude E. Microorganisms in bottom deposits. In Marine microbiology. Waltham, Mass., Chronica Botanica, 1946. p. 90-99.